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WHAT IS CLAIMED IS:

L	1.	A	system	for	computing	overall	image	quality	for
2	a composi	te	image c	ompr	ising:				

a controller receiving image data for the composite image, the controller:

segmenting the image data into segments corresponding to different objects within the composite image,

computing an image quality value for each segment, and

deriving an overall image quality value from the image quality values for all segments within the composite image.

2. The system according to claim 1, wherein the controller, in segmenting the image data into segments corresponding to different objects within the composite image, employs motion vectors for pixels or pixel blocks within the image to identify the different objects.

- 3. The system according to claim 1, wherein the controller, in deriving an overall image quality value from the image quality values for all segments within the composite image, associates an importance indicator with each segment rating an effect of the corresponding segment on image quality for the composite image.
- 4. The system according to claim 3, wherein the overall image quality value is computed from the sum, for all segments within the image, of a product of the importance indicator for a segment and the image quality value for that segment.
- 5. The system according to claim 3, wherein the importance indicator for a segment is computed from a relative size of the segment with respect to the composite image and an average estimated motion vector value for that segment.

1 . 6.	A video	system	comprising
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an input for receiving image data for a composite image;

a motion estimator computing motion vectors for pixels or pixel blocks within the composite image; and

a controller receiving the image data and the motion vectors for the composite image, the controller:

segmenting the image data into segments corresponding to different objects within the composite image,

computing an image quality value for each segment, and

deriving an overall image quality value from the image quality values for all segments within the composite image.

7. The video system according to claim 6, wherein the controller, in segmenting the image data into segments corresponding to different objects within the composite image, employs the motion vectors for pixels or pixel blocks within the composite image to identify the different objects.

- the controller, in deriving an overall image quality value from the image quality values for all segments within the composite image, associates an importance indicator with each segment rating an effect of the corresponding segment on image quality for the composite image.
- 9. The video system according to claim 8, wherein the overall image quality value is computed from the sum, for all segments within the image, of a product of the importance indicator for a segment and the image quality value for that segment.
- 10. The system according to claim 8, wherein the importance indicator for a segment is computed from a relative size of the segment with respect to the composite image and an average estimated motion vector value for that segment.

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1 . 11. A method of computing overall image quality for a
2 composite image comprising:

segmenting image data for the composite image into segments corresponding to different objects within the composite image;

computing an image quality value for each segment; and

deriving an overall image quality value from the image quality values for all segments within the composite image.

12. The method according to claim 11, wherein the step of segmenting the image data into segments corresponding to different objects within the composite image further comprises:

employing motion vectors for pixels or pixel blocks within the image to identify the different objects.

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associating an importance indicator with each segment rating an effect of the corresponding segment on image quality for the composite image.

14. The method according to claim 13, further comprising:

computing the overall image quality value from the sum, for all segments within the image, of a product of the importance indicator for a segment and the image quality value for that segment.

15. The method according to claim 13, further comprising:

computing the importance indicator for a segment from a relative size of the segment with respect to the composite image and an average estimated motion vector value for that segment.

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1 . 16. A signal relating to overall image quality for a composite image comprising:

an overall image quality value for the composite image derived from image quality values for all segments of image data for the composite image,

wherein each image data segment corresponds to a different object within the composite image and image quality values are independently computed for all segments within the image data.

- 17. The signal according to claim 16, wherein the segments are based on motion vectors for pixels or pixel blocks within the image.
- 18. The signal according to claim 16, wherein the overall image quality value is based on importance indicators associated with each segment and rating an effect of the corresponding segment on image quality for the composite image.

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- overall image quality value is computed from the sum, for all segments within the image, of a product of the importance indicator for a segment and the image quality value for that segment.
- 20. The signal according to claim 18, wherein the importance indicator for a segment is computed from a relative size of the segment with respect to the composite image and an average estimated motion vector value for that segment.